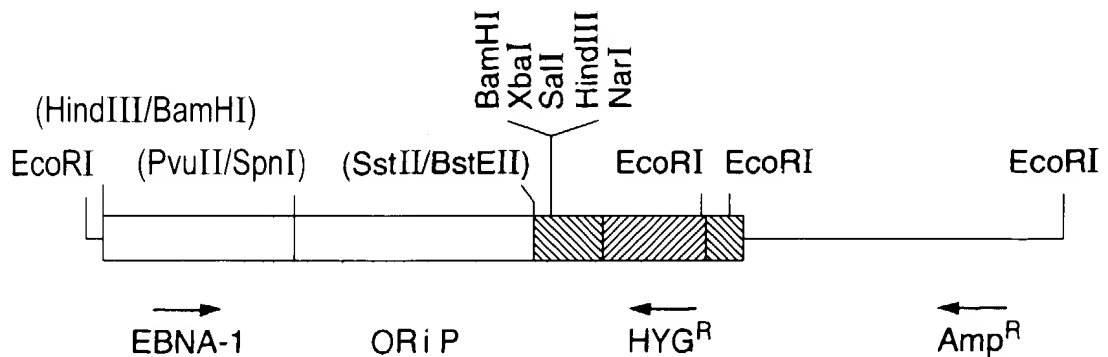


FIG. 1



bp	
1-35	— pBR322
36-2646	□ EBV EBNA-1 107567-110176 (Baer et. al., Nature 310:1984) Bam HI-PvuII fragment. Bam HI site was blunt-end ligated to the HindIII site.
2647-4826	□ EBV OriP 7333-9516 SphI-SstII sites blunt-end ligated to the BstEII site. (Sugden et. al., MCB 5:410, 1985)
4827-5460	▨ HSV TK regulatory region (McKnight, S.L., Nucleic Acids Res. 8, 5949, 1980)
6488-6747	▨ PvuII fragment ligated into the poisonless pBR322 at NaeI site. These sites lost in cloning.
5461-6487	▨ HPH gene (Gritz and Davies, Gene 25:179, 1983) Ban HI fragment blunt-end ligated into the SmaI and BglII sites in HSV TK sequences.
6748-8952	— pBR322 poisonless vector (deletion of 1.1 kb in pBR322) confers ampicillin resistance. (Lusky & Botchan , Nature 293:79, 1981)

FIG. 2

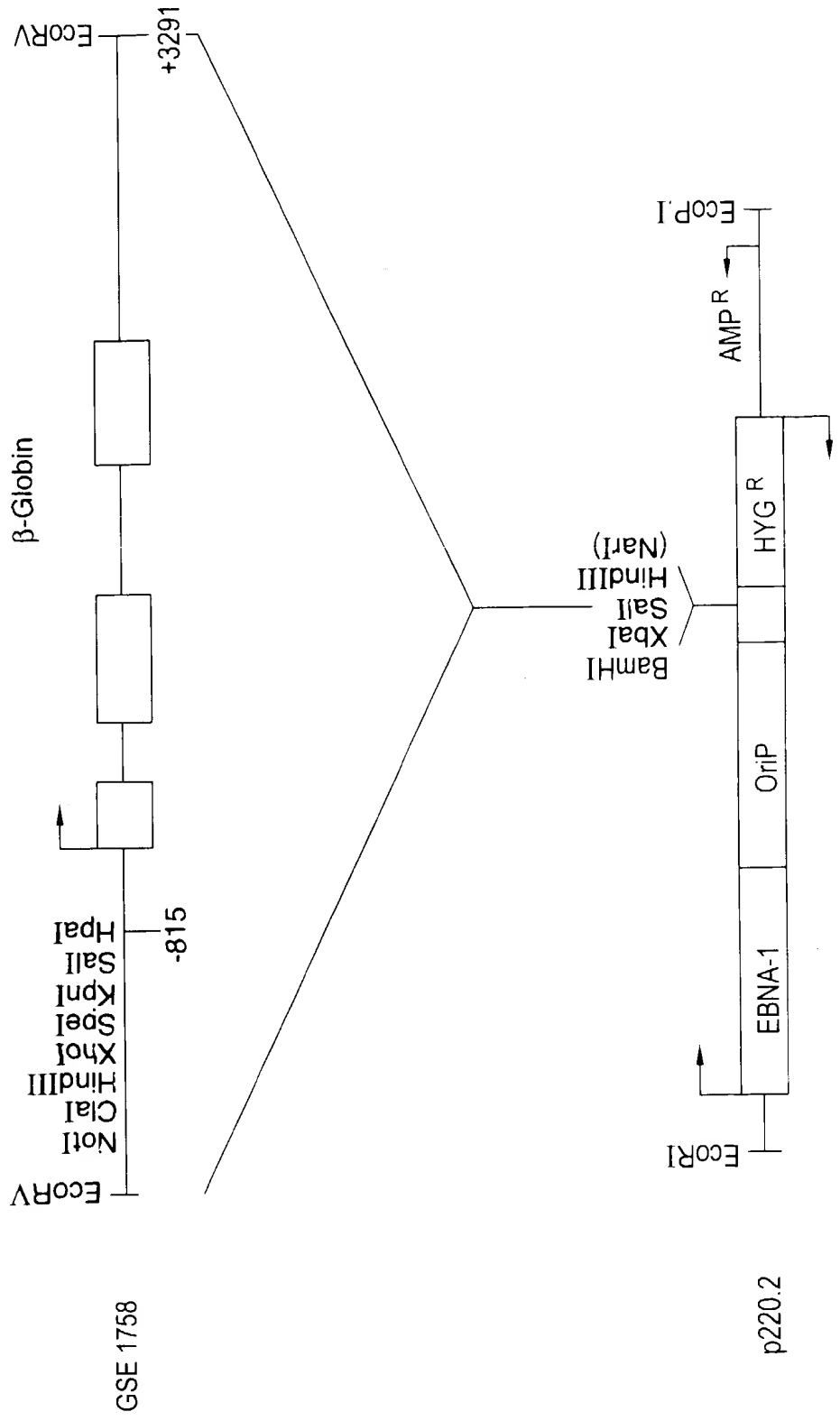
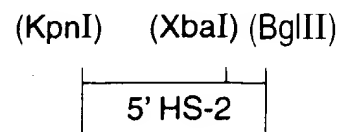
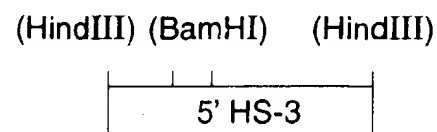


FIG. 3

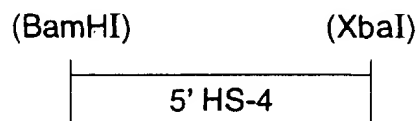
5' HS-2 - 1.5kb KpnI-BglII
blunted fragment



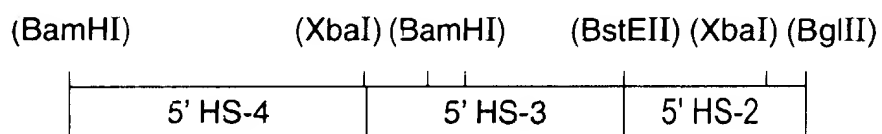
5' HS-3 - 1.9kb HindIII
fragment



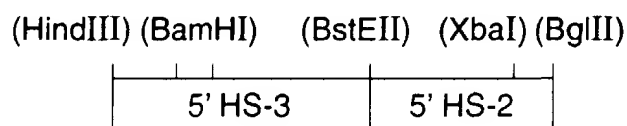
5' HS-4 - 2.1kb BamHI-XbaI
fragment



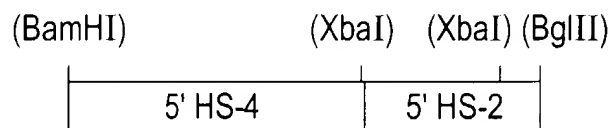
5' HS-4-3-2
5.5kb construct



5' HS-3-2
3.4kb construct



5' HS-4-3
4kb construct



5' HS-4-2
3.6kb construct

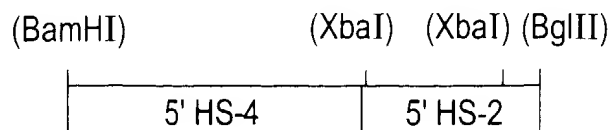


FIG. 4

S1 analysis of K562 cells containing human β -globin on an EBV based vector

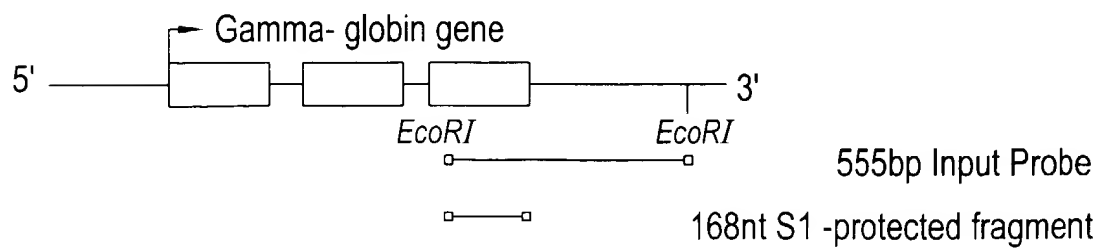
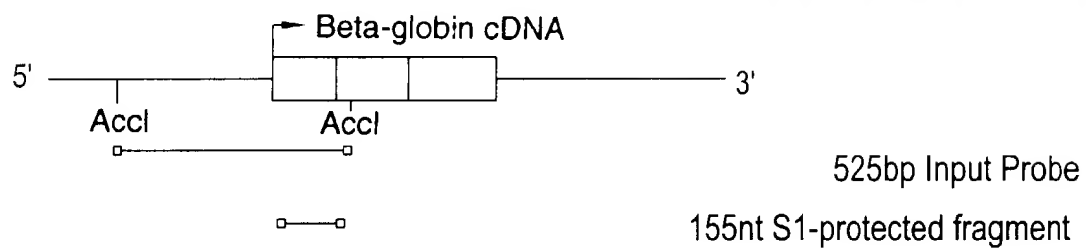
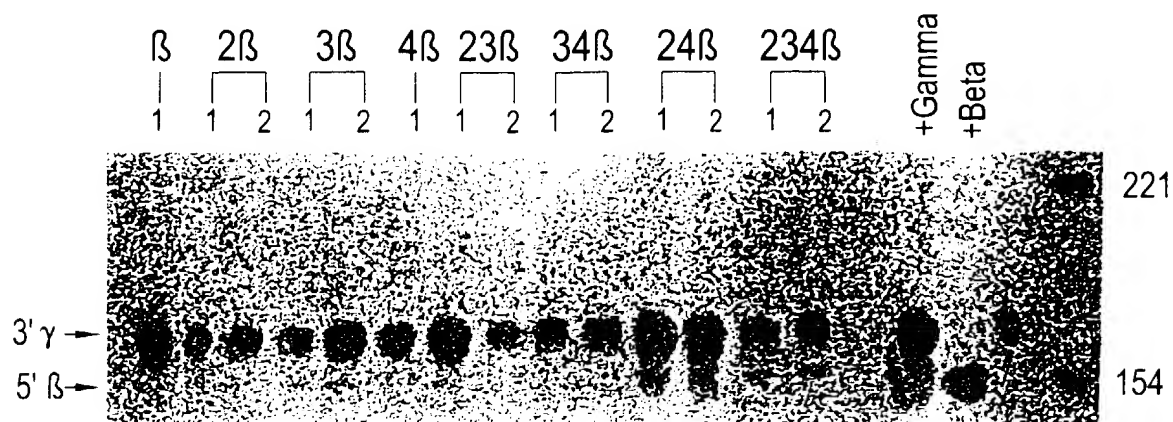
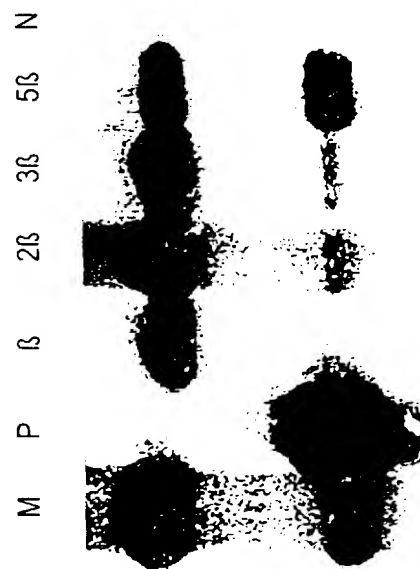


FIG. 5

A.K562



B. HeLa

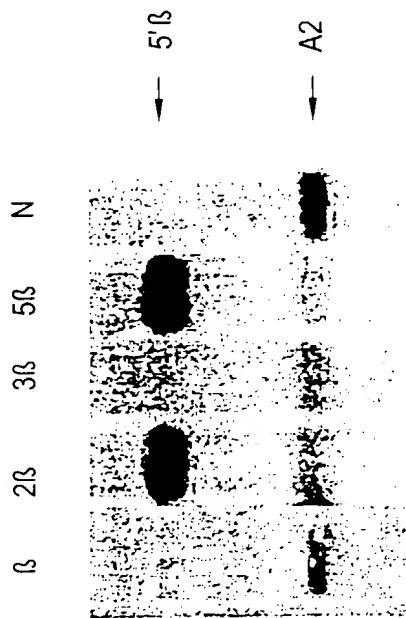


FIG. 6

